

IN THE CLAIMS:

1. (Currently Amended) A method of ~~utilizing a written universal resource locator (URL) to communicate with the internet~~, comprising the steps of:

using a camera unit to acquire a raw visual light image that contains a written uniform resource locator ~~the written URL~~,

converting the raw visual light image to an electronic image,

having a mobile device locate and recognize glyphs of at least one particular standardized set of uniform resource locator URL characters in ~~an arbitrary scene of the~~ electronic image,

attempting to extract ~~extracting~~ remaining parts of ~~an extractable URL~~ the uniform resource locator from the electronic image after locating and recognizing the glyphs which include ~~are at least partly from the group consisting of "http" [[and]] or "www";~~

sending the ~~extractable URL~~ results of the extraction attempt in a request signal to a web server in order to access an internet site,

processing a reply from the web server, and

presenting the internet ~~site~~ site,

wherein the method further comprises zooming in on the uniform resource locator, before the extraction attempt, but after locating and recognizing the glyphs.

2. (Currently Amended) The method of claim 1, further comprising ~~the steps of:~~

approximating an angle between a plane of ~~a glyph of a certain character~~ at least one of the glyphs and a plane perpendicular to a line of sight from the camera; and

compensating for said angle before attempting extraction of remaining parts of the ~~extractable~~ uniform resource locator URL.

3. (Original) The method of claim 1, wherein the camera is a video or still camera for capturing arbitrary scenes.

4. (Currently Amended) The method of claim 2, ~~wherein the at least one particular set of characters comprises the character string www, and~~ wherein the certain character is the letter "o."

5. (Currently Amended) The method of claim 1, wherein ~~the step of~~ extracting the uniform resource locator URL is performed at least partly by a ~~URL extraction means that receives the electronic image~~ via a telecommunications network.

6. (Currently Amended) The method of claim 1, further comprising ~~the step of~~ manually amending the extractable results URL if the extractable results are URL is different from the written uniform resource locator URL.

7. (Currently Amended) The method of claim 1, further comprising ~~the steps of~~:

- selecting a portion of the electronic image containing the written uniform resource locator URL, if the extractable results are URL is different from the written uniform resource locator URL,
- extracting a more accurate uniform resource locator URL from the portion of the electronic image,
- sending the more accurate uniform resource locator URL to a corresponding web server,
- processing a further reply from the corresponding web server,
- displaying a desired web site accessed via the corresponding web server in response to the more accurate uniform resource locator URL.

8. CANCEL.

9. CANCEL.

10. (Currently Amended) The method of claim 1, further comprising ~~the step of performing~~ the extracting, sending, and processing steps again, if the reply indicated an invalid uniform resource locator URL.

11. (Currently Amended) The method of claim 10, wherein the performing step is performed by a different computer having a greater capacity.

12. (Currently Amended) The method of claim 1, wherein the ~~extracting step~~ attempt also yields at least one alternate uniform resource locator URL that will be tried if the extractable uniform resource locator URL turns out to be invalid.

13. (Currently Amended) The method of claim 7, wherein the step of selecting the portion of the electronic image is performed manually using a stylus ~~or zoom functionality~~.

14. CANCEL.

15. (Currently Amended) A system ~~for utilizing a written universal resource locator (URL) to communicate with the internet~~, comprising:

a camera, responsive to a raw visual light image ~~containing the written~~ that contains a written uniform resource locator, the camera being configured to provide (URL), for providing an electronic image signal indicative of the raw visual light image;

a uniform resource locator (URL) extraction device means, responsive to the electronic image signal, the extraction device being configured to find and recognize for finding and recognizing glyphs of at least one particular standardized set of uniform resource locator (URL) characters in an arbitrary scene of the electronic image, and also for providing a being configured to provide a uniform resource locator (URL) request signal indicative of results of attempting to extract remaining parts of an extractable the uniform resource locator (URL) that [[is]] are

extracted from the electronic image signal after finding and recognizing the glyphs, ~~which are at least partly from the group consisting of said glyphs including “http” [[and]] or “www”;~~

an internet interface, responsive to the uniform resource locator (URL) request signal, the internet interface being configured to provide ~~for providing~~ a web site signal indicative of an internet site accessed via the internet; and

a display, responsive to the web site signal, for presenting the internet site,
wherein the camera is further configured to zoom in on the uniform resource locator before the attempted extraction, but after the finding and recognition of the glyphs.

16. (Currently Amended) The system of claim 15, wherein the uniform resource locator URL extraction means is also for using a glyph of a certain character to approximate an angle between a plane of said glyph of the certain character and a plane perpendicular to a line of sight from the camera, and compensating for said angle before attempting recognition of remaining parts of the extractable uniform resource locator URL.

17. CANCEL.

18. CANCEL

19. CANCEL

20. CANCEL

21. (Currently Amended) The system of claim 16, further comprised of an editing tool ~~editing means~~, for manually amending the ~~extractable results URL~~ if it is they are different from the written uniform resource locator URL.

22. CANCEL.

23. (Currently Amended) A mobile device ~~for utilizing a written universal resource locator (URL) to communicate with the internet, the mobile device~~ comprising:

an initiation means device, for sending configured to send an instruction to obtain a raw visual light image which includes glyphs of at least one ~~particular~~ standardized set of uniform resource locator URL characters ~~in an arbitrary scene, including “http” or “www”;~~

a camera, responsive to the instruction from the initiation device means, for receiving the camera being configured to receive the raw visual light image and ~~for providing configured to provide~~ an electronic image signal indicative of the raw visual light image;

a display, ~~for presenting the web site, the display being~~ responsive to a web site signal indicative of an internet site ~~corresponding to an extractable~~ accessed by attempting to extract a uniform resource locator URL that has remaining parts which have been extracted from the raw visual light image, wherein the attempt is after the mobile device locates and recognizes the glyphs ~~glyphs; which are at least partly from the group consisting of “http” and “www”;~~ and

an internet interface, ~~for providing configured to provide~~ the web site signal to the display after communicating with the internet;

wherein the camera is further configured to zoom in on the uniform resource locator before the attempted extraction, but after the recognition of the glyphs.

~~wherein the mobile device is for processing the electronic image signal provided by the camera, in order to obtain the web site signal from the internet interface.~~

24. (Currently Amended) The mobile device of claim 23, wherein the mobile device is also ~~for using a glyph of a certain character~~ configured to use one of the glyphs for approximating to approximate an angle between a plane of said glyph ~~of the certain character~~ and a plane perpendicular to a line of sight from the camera, and ~~compensating and configured to compensate~~ for said angle.

25. (Currently Amended) The mobile device of claim 23, wherein the camera is a video or still camera for capturing arbitrary scenes, ~~and wherein the camera comprises a zoom mechanism for automatically zooming in on the extractable URL to improve the electronic image signal.~~

26. (Currently Amended) The mobile device of claim 24, wherein the ~~at least one particular set of characters comprises the character string www, and wherein the certain character~~ one of the glyphs is the letter "o."

27. (Currently Amended) The mobile device of claim 23, further comprising a uniform resource locator URL extraction means device that is responsive to the electronic image signal provided by the camera, the uniform resource locator URL extraction means being for finding device being configured to find the ~~at least one particular set of glyphs, for processing and configured to process~~ the electronic image signal, and configured to provide ~~for providing~~ a uniform resource locator URL request signal to the internet interface;

wherein the internet interface is responsive to the uniform resource locator URL request signal, and is configured to provide ~~for providing~~ the web site signal after communicating with the internet.

28. (Currently Amended) The mobile device of claim 23, wherein the internet interface is responsive to the electronic image signal, and is ~~for processing~~ configured to process the electronic image signal by conveying the electronic image signal to an internet extraction site.

29. (Currently Amended) The mobile device of claim 23, wherein the initiation ~~means device~~ is configured to give ~~gives~~ the user an option to make a bookmark for the ~~extractable~~ uniform resource locator URL, and wherein the mobile device is ~~for obtaining~~ configured to obtain the web site signal when the bookmark is retrieved.

30. (Currently Amended) The mobile device of claim 23, further comprised of an editing means, for manually amending the ~~extractable~~ results of attempting to extract the uniform resource locator URL if the ~~extractable~~ results are URL is different from the written uniform resource locator URL.

31. (Currently Amended) The mobile device of claim 23, further comprising an image selection ~~device means~~, responsive to user input and responsive to the electronic image signal, ~~for providing~~ configured to provide an image portion signal indicative of a portion of the electronic image where the written uniform resource locator URL is depicted; and
wherein the mobile device is ~~for processing~~ configured to process the image portion signal to obtain the web site signal from the internet interface.

32. CANCEL.

33. (Currently Amended) The mobile device of claim 31, wherein the image selection ~~means device~~ includes a stylus for selecting the portion of the electronic image where the written uniform resource locator URL is depicted.

34. CANCEL.

35. (Original) A computer-readable medium or media, encoded with a data structure for performing the method of claim 1.

36. CANCEL.

37. CANCEL.

38. CANCEL.

39. CANCEL.

40. CANCEL.

41. CANCEL.

42. (New) An apparatus comprising:

an initiation device, configured to send an instruction to obtain a raw visual light image which includes glyphs of at least one standardized set of uniform resource locator characters, including “http” or “www”;

a camera, responsive to the instruction from the initiation device, the camera being configured to receive the raw visual light image and configured to provide an electronic image signal indicative of the raw visual light image;

a display, responsive to a web site signal indicative of an internet accessed by attempting to extract a uniform resource locator from the raw visual light image, wherein the attempt is after the apparatus locates and recognizes the glyphs; and

an internet interface, configured to provide the web site signal to the display after communicating with the internet;

wherein the camera is further configured to zoom in on the uniform resource locator before the attempted extraction, but after the recognition of the glyphs.

43. (New) The apparatus of claim 42, wherein the apparatus is also configured to use at least one of the glyphs to approximate an angle between a plane of said glyph and a plane perpendicular to a line of sight from the camera, and configured to compensate for said angle.

44. (New) A software product for use in a mobile terminal, the software product comprising a computer readable medium having executable codes embedded therein; the codes, when executed, being adapted to carry out the functions of:

- using a camera unit to acquire a raw visual light image that contains a written uniform resource locator,

- converting the raw visual light image to an electronic image,

- having a mobile device locate and recognize glyphs of at least one particular standardized set of uniform resource locator characters in the electronic image,

- attempting to extract remaining parts of the uniform resource locator from the electronic image after locating and recognizing the glyphs which include “http” or “www”;

- sending the results of the extraction attempt in a request signal to a web server in order to access an internet site,

- processing a reply from the web server, and

- presenting the internet site,

- wherein the method further comprises zooming in on the uniform resource locator, before the extraction attempt, but after locating and recognizing the glyphs.

45. (New) The software product of claim 44, wherein the functions further comprise:

- approximating an angle between a plane of one of the glyphs and a plane perpendicular to a line of sight from the camera; and

- compensating for said angle before attempting extraction of remaining parts of the uniform resource locator.